STN-Structure Season 8/201

10/510,579

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L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2007:473169 CAPLUS

DOCUMENT NUMBER:

147:72438

TITLE:

AUTHOR (S):

Self-assembly of semifluorinated minidendrons attached

to electron-acceptor groups into pyramidal columns

Percec, Virgil; Aqad, Emad; Peterca, Mihai; Imam, Mohammad R.; Glodde, Martin; Bera, Tusha K.; Miura,

Yoshiko; Balagurusamy, Venkatachalapathy S. K.; Ewbank, Paul C.; Wuerthner, Frank; Heiney, Paul A.

CORPORATE SOURCE:

Roy & Diana Vagelos Laboratories, Department of

Chemistry, University of Pennsylvania, Philadelphia,

PA, 19104-6323, USA

SOURCE:

Chemistry--A European Journal (2007), 13(12),

3330-3345

CODEN: CEUJED; ISSN: 0947-6539 Wiley-VCH Verlag GmbH & Co. KGAA

DOCUMENT TYPE:

Journal

LANGUAGE:

PUBLISHER:

English

AB The synthesis and self-assembly of twelve semifluorinated first-generation dendrons or minidendrons attached to electron-acceptor (n-type) groups generated from various combinations of eigh2t acceptors and three dendrons are reported. Dendrons attached to small electron-acceptor mols. mediate their self-assembly into $\pi\text{-stacks}$ located in the center of a supramol. helical pyramidal column with the long axis of the acceptor perpendicular to the long axis of the column. Dendrons attached to large electron-acceptor mols., such as perylene bisimide, mediate the assembly of their acceptors in an unprecedented arrangement of $\pi\text{-stacks}$ that have the long axis of the acceptors parallel to the long axis of the supramol. pyramidal column. All supra-mol. columns self-organize into various periodic columnar arrays that exhibit liquid-crystalline phases,

crystalline

phases, or a liquid-crystalline phase with enhanced intracolumnar order.

present study demonstrates the simplicity and the versatility of the

concept of assembly of n-type electroactive groups mediated by

semifluorinated dendrons and assesses the scope and limitations of this

supramol. strategy.

IT 941677-47-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(self-assembly of semifluorinated minidendrons attached to electron-acceptor groups into pyramidal columns)

RN 941677-47-0 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

PAGE 1-B

O (CH₂)₄ (CF₂)₇ CF₃

O (CH₂)₄-(CF₂)₇-CF₃

IT 110590-81-3P 651768-35-3P 941677-46-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (self-assembly of semifluorinated minidendrons attached to electron-acceptor groups into pyramidal columns)

RN 110590-81-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis(1-ethylpropyl)- (CA INDEX NAME)

RN 651768-35-3 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(2-hydroxyethoxy)ethyl]- (CA INDEX NAME)

RN 941677-46-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

REFERENCE COUNT:

HO CH2 CH2 O CH2

86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1245526 CAPLUS

DOCUMENT NUMBER: 146:155297

TITLE: Tri-, tetra- and heptacyclic perylene analogues as new

potential antineoplastic agents based on DNA

telomerase inhibition

AUTHOR(S): Sissi, Claudia; Lucatello, Lorena; Paul Krapcho, A.;

Maloney, David J.; Boxer, Matthew B.; Camarasa, Maria

V.; Pezzoni, Gabriella; Menta, Ernesto; Palumbo,

Manlio

CORPORATE SOURCE: Department of Pharmaceutical Sciences, University of

Padova, Padua, 5-35131, Italy

SOURCE: Bioorganic & Medicinal Chemistry (2007), 15(1),

555-562

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB A recent approach in anticancer chemotherapy envisages telomerase as a potentially useful target. An attractive strategy deals with the development of compds. able to stabilize telomeric DNA in the G-quadruplex folded structure and, among them, a prominent position is found in the perylenes. With the aim to further investigate the role of drug structure, in view of possible pharmaceutical applications, the authors synthesized a series of compds. related to PIPER, a well-known perylene-based telomerase inhibitor. The authors modified the number of condensed aromatic rings and introduced different side chains to modulate drug protonation state and extent of self-aggregation. Effective telomerase inhibition was induced by heptacyclic analogs only, some showing a remarkably wide selectivity index with reference to inhibition of Taq polymerase. G-quadruplex stabilization was monitored by CD and melting expts. Cell cytotoxicity measurements indicated a poor short-term cell killing ability for the best G-quartet binders. Besides the presence of a planar seven-condensed ring system, the introduction of a cyclic amine in the side chains critically affects the selectivity window.

IT 154355-16-5P 236735-00-5P 236735-02-7P 920490-26-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(tri-, tetra- and heptacyclic perylene analogs as new potential antineoplastic agents based on DNA telomerase inhibition)

RN 154355-16-5 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-2,9-diethanaminium, 1,3,8,10-tetrahydro-N2,N2,N2,N9,N9-hexamethyl-1,3,8,10-tetraoxo-,

iodide (1:2) (CA INDEX NAME)

$$\begin{array}{c} \text{CH}_2-\text{CH}_2-\text{N}+\text{Me}_3\\ \text{N}\\ \text{O}\\ \text{Me}_3+\text{N}-\text{CH}_2-\text{CH}_2\\ \text{O}\\ \end{array}$$

•2 I-

RN 236735-00-5 CAPLUS

CN 2,9-Diazacyclooctane-1,3,8,10-tetrone, 2,9-bis[2-(1-piperidinyl)ethyl]-, hydrochloride (1:2) (CA INDEX NAME)

N
$$CH_2$$
 CH_2 CH_2

●2 HCl

RN 236735-02-7 CAPLUS

CN 2,9-Diazacyclononadecane-1,3,8,10-tetrone, 2,9-bis[2-(dimethylamino)ethyl]-, hydrochloride (1:2) (CA INDEX NAME)

●2 HCl

RN 920490-26-2 CAPLUS
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(2-aminoethyl)-, hydrochloride (1:2) (9CI) (CA INDEX NAME)

●2 HCl

TT 79070-66-9P, N-[2-[Dimethylamino]ethyl]-1,8-naphthalimide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (tri-, tetra- and heptacyclic perylene analogs as new potential
 antineoplastic agents based on DNA telomerase inhibition)
RN 79070-66-9 CAPLUS
CN lH-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]- (CAINDEX NAME)

37 REFERENCE COUNT: THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN ANSWER 3 OF 7

ACCESSION NUMBER: 2001:20366 CAPLUS

DOCUMENT NUMBER: 134:237379

TITLE: Perylene derivatives formation in reaction of

3-bromobenzanthrone and 4-bromonaphthalic acid

derivatives with a reduction system

NiCl2-2,2'bipyridyl (or 1,10-phenathroline)-Zn Adonin, N. Yu.; Ryabinin, V. A.; Starichenko, V. F. AUTHOR (S):

CORPORATE SOURCE: Vorozhtsov Novosibirsk Institute of Organic Chemistry,

Siberian Division, Russian Academy of Sciences,

Novosibirsk, 630090, Russia

SOURCE: Russian Journal of Organic Chemistry (Translation of

Zhurnal Organicheskoi Khimii) (2000), 36(6), 861-865

CODEN: RJOCEQ; ISSN: 1070-4280

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal LANGUAGE: English

CASREACT 134:237379 OTHER SOURCE(S):

GI

Ω PhN N Ph 0 Ι

AB The reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivs. with a reduction system NiCl2-2,2'-bipyridyl (or 1,10-phenathroline)-Zn gives rise to compds. containing perylene fragment, e.g. I. Under similar conditions was established a possibility to transform substituted 1,1'-binaphthyls into the corresponding perylene derivs.

2382-08-3, lH-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl-

RL: RCT (Reactant); RACT (Reactant or reagent)

(perylene derivs. formation in reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivs. with a reduction system nickel

chloride-2,2'bipyridyl (or 1,10-phenathroline)-zinc)

RN 2382-08-3 CAPLUS

CN 1H-Benz [de] isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)

0

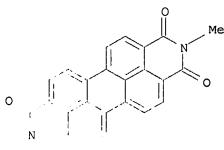
IT 5521-31-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (perylene derivs. formation in reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivs. with a reduction system nickel

chloride-2,2'bipyridyl (or 1,10-phenathroline)-zinc)

RN 5521-31-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-dimethyl- (CA INDEX NAME)



Me

0

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:875960 CAPLUS

DOCUMENT NUMBER: 134:164454

TITLE: A "green" route to perylene dyes: direct coupling

reactions of 1,8-naphthalimide and related compounds under mild conditions Using a "new" base complex

reagent, t-BuOK/DBN

AUTHOR(S): Sakamoto, Takaaki; Pac, Chyongjin

CORPORATE SOURCE: Kawamura Institute of Chemical Research, Sakura Chiba,

285-0078, Japan

SOURCE: Journal of Organic Chemistry (2001), 66(1), 94-98

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:164454

AB The direct coupling (cyclodimerization) reactions of 1,8-naphthalimide compds. efficiently occurred at 130 or 170°C without the intervention of the leuco form dyes in the presence of base complex reagent, tert-BuOK/1,5-diazabicyclo[4.3.0]non-5-ene (DBN), to give the corresponding perylene dyes in good yields with >95% purities. A possible mechanistic speculation for these oxidative coupling reactions is briefly discussed.

IT 5521-31-3P 26872-64-0P 52000-81-4P

58935-22-1P 73528-89-9P 78151-58-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye; oxidative coupling of naphthalimides to perylenedicarboximide
dyes)

RN 5521-31-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-dimethyl- (CA INDEX NAME)

RN 26872-64-0 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)

$$_{\rm CH_2}$$
 $_{\rm CH_2}$ $_{\rm$

RN 52000-81-4 CAPLUS

НО

Ph

CH₂

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 58935-22-1 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis(3-methoxypropyl)- (9CI) (CA INDEX NAME)

RN 73528-89-9 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

RN 78151-58-3 CAPLUS

Me₂N CH₂

Me

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-dioctyl- (CA INDEX NAME)

2382-08-3, N-Methyl-1,8-naphthalimide 2896-24-4,
N-Benzyl-1,8-naphthalimide 5450-40-8, N-(2-Hydroxyethyl)-1,8naphthalimide 39061-46-6, N-Octyl-1,8-naphthalimide
60100-03-0, N-(3-Methoxypropyl)-1,8-naphthalimide
79070-66-9, N-[2-(Dimethylamino)ethyl]-1,8-naphthalimide
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; oxidative coupling of naphthalimides to perylenedicarboximide dyes)

RN 2382-08-3 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)

```
N
Me
O

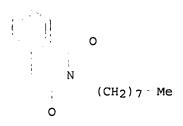
RN 2896-24-4 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)
```

O N CH₂ Ph O

RN 5450-40-8 CAPLUS CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(2-hydroxyethyl)- (CA INDEX NAME)

O CH₂ CH₂ OH

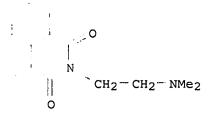
RN 39061-46-6 CAPLUS CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-octyl- (9CI) (CA INDEX NAME)



RN 60100-03-0 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(3-methoxypropyl)- (CA INDEX NAME)

RN 79070-66-9 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:78464 CAPLUS

DOCUMENT NUMBER:

130:153479

TITLE:

Reagents for condensation reaction of condensed

polycyclic aromatic compounds

INVENTOR(S): Sakamoto, Takaaki; Yonehara, Yoshitomo; Boku, Shoshin

PATENT ASSIGNEE(S): Kawamura Institute of Chemical Research, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

Patent

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 11029499	A	19990202	JP 1997-183343	19970709	
PRIORITY APPLN. INFO.:			JP 1997-183343	19970709	
omiran ooringa (o)	10177 CD (C)				

OTHER SOURCE(S): CASREACT 130:153479

AB Title reagents contain alkali metal alkoxides and organic bases having an azabicyclo ring. T-BuOK and 1,5-diazabicyclo[4,3,0]-5-nonene were heated in diglyme at 170° for 1 h and treated with 1,8-naphthalimide at 170° for 8 h to give 99% perylene-3,4,9,10-tetracarboxylic acid diimide.

IT 5521-31-3P, N,N'-Dimethylperylene-3,4,9,10-tetracarboxylic acid diimide 52000-81-4P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(condensation of condensed polycyclic aromatic compds. using alkali alkoxides and azabicyclo compds.)

RN 5521-31-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-dimethyl- (CA INDEX NAME)

RN 52000-81-4 CAPLUS
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

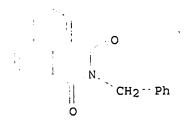
$$CH_2 - Ph$$
 $CH_2 - Ph$
 $CH_2 - Ph$

IT 2382-08-3, N-Methyl-1,8-naphthalimide 2896-24-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (condensation of condensed polycyclic aromatic compds. using alkali alkoxides and azabicyclo compds.)
RN 2382-08-3 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)

Ph

RN 2896-24-4 CAPLUS CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)



ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

1998:673648 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 130:14915

TITLE: Aryl coupling reactions using a novel base complex

reagents for synthesis of polycyclic organic pigments

Sakamoto, Takaaki; Yonehara, Hisatomo; Pac, Chyongjin AUTHOR(S):

CORPORATE SOURCE:

Kawamura Rikagaku Kenkyusho Hokoku (1997) 45-51 SOURCE:

CODEN: KRKHFZ; ISSN: 0917-7841

Kawamura Rikagaku Kenkyusho PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: Japanese

IN a preliminary previous paper, it was reported that an anal. pure

material of perylene derivative was prepared in >95% yield upon heating a

mixture

of 1,8-naphthalimide, t-BuOK, 1,5-diazabicyclo[4,3,0]non-5-ene (DBN), and diglyme at 130°. This synthetic method has been successfully applied to the coupling reactions of N-substituted 1,8-naphthalimides,

1,8-naphthalenedicarbonylbenzimidazole, acenaphtho[1,2-b]quinoxaline,

mesobenzanthtone, and 2-aminoanthraquinone.

5521-31-3P 26872-64-0P 52000-81-4P IT 58935-22-1P 73528-89-9P 78151-58-3P

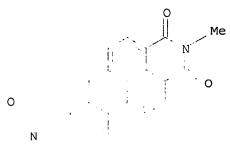
RL: SPN (Synthetic preparation); PREP (Preparation)

(aryl coupling reactions using novel base complex reagents for

synthesis of polycyclic organic pigments)

RN 5521-31-3 CAPLUS

Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, CN 2,9-dimethyl- (CA INDEX NAME)



Me

0

RN 26872-64-0 CAPLUS

Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, CN 2,9-bis(2-hydroxyethyl) - (9CI) (CA INDEX NAME)

RN 52000-81-4 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 58935-22-1 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis(3-methoxypropyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

RN 73528-89-9 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-bis[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

RN 78151-58-3 CAPLUS

Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, CN2,9-dioctyl- (CA INDEX NAME)

IT 2382-08-3 2896-24-4 5450-40-8

39061-46-6 60100-03-0 79070-66-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; aryl coupling reactions using novel base complex reagents

for synthesis of polycyclic organic pigments)

RN 2382-08-3 CAPLUS

Me

1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME) CN

2896-24-4 CAPLUS RN

1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME) CN

RN 5450-40-8 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(2-hydroxyethyl)- (CA INDEX NAME)

RN 39061-46-6 CAPLUS

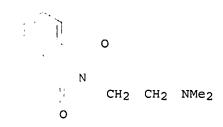
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-octyl- (9CI) (CA INDEX NAME)

RN 60100-03-0 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(3-methoxypropyl)- (CA INDEX NAME)

RN 79070-66-9 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]- (CA INDEX NAME)



L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:555404 CAPLUS

DOCUMENT NUMBER: 127:206939

TITLE: Direct one-step dimerization of condensed polynuclear

aromatic compounds

INVENTOR(S): Sakamoto, Takaaki; Yonehara, Yoshitomo; Boku, Shoshin

PATENT ASSIGNEE(S): Kawamura Rikagaku Kenkyusho, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. ----------_ _ _ _ -----------JP 09194746 Α 19970729 JP 1996-73857 19960328 PRIORITY APPLN. INFO.: JP 1995-294142

OTHER SOURCE(S): CASREACT 127:206939

AB The title process for making dyes and pigments and electronic materials is carried out in a system containing alkali metal hydroxide and/or alkoxide and azabicyclo ring-containing organic base. A mixture of tert-BuOK, 1,5-diazabicyclo[4.3.0]non-5-ene, and diglyme was stirred at 170° for 1 h under N atmospheric, treated with 1,8-naphthalimide at the same temperature for

8 h to obtain perylene-3,4,9,10-tetracarboxylic diimide in 99% yield.

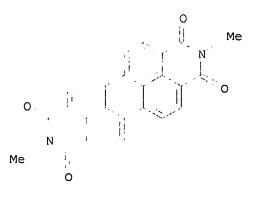
IT 5521-31-3P, N,N'-Dimethylperylene-3,4,9,10-tetracarboxylic diimide 52000-81-4P

RL: IMF (Industrial manufacture); PREP (Preparation)

(direct one-step dimerization of condensed polynuclear aromatic compds.)

RN 5521-31-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-dimethyl- (CA INDEX NAME)



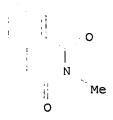
RN 52000-81-4 CAPLUS CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone.

2,9-bis(phenylmethyl) - (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{CH}_2-\text{Ph} \\ \text{N} \\ \text{O} \\ \text{Ph} \quad \text{CH}_2 \end{array}$$

IT 2382-08-3, N-Methyl-1,8-Naphthalimide 2896-24-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (direct one-step dimerization of condensed polynuclear aromatic compds.)
RN 2382-08-3 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)



RN 2896-24-4 CAPLUS CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)

=> d his

(FILE 'HOME' ENTERED AT 09:37:56 ON 20 AUG 2007)

FILE 'REGISTRY' ENTERED AT 09:38:09 ON 20 AUG 2007
L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 50 S L1
L4 946 S L1 FULL
L5 3703 S L2 FULL

FILE 'CAPLUS' ENTERED AT 09:41:16 ON 20 AUG 2007 L6 333 S L4/PREP 10/510,579

L7 229 S L5/RCT L8 7 S L6 AND L7

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT * Structure attributes must be viewed using STN Express query preparation.

=> d 12

L2 HAS NO ANSWERS

L2 STR

О И О

Structure attributes must be viewed using STN Express query preparation.

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